

Amendment to the Claims

1. (canceled)

2. (currently amended) The catalyst member of claim ‡36 wherein the anchor layer is deposited by electric arc spraying a metal feedstock selected from the group consisting of nickel, Ni/Al, Ni/Cr, Ni/Cr/Al/Y, Co/Cr, Co/Cr/Al/Y, Co/Ni/Cr/Al/Y, Fe/Al, Fe/Cr, Fe/Cr/Al, Fe/Cr/Al/Y, Fe/Ni/Al, Fe/Ni/Cr, 300 series stainless steels, 400 series stainless steels, and mixtures of two or more thereof.

3. (original) The catalyst member of claim 2 wherein the anchor layer comprises nickel and aluminum.

4. (original) The catalyst member of claim 3 wherein the aluminum comprises from about 3 to 10 percent of the combined weights of nickel and aluminum in the anchor layer.

5. (original) The catalyst member of claim 3 wherein the aluminum comprises from about 4 to 6 percent aluminum of the combined weights of nickel and aluminum in the anchor layer.

6. (currently amended) The catalyst member of claim ‡36 wherein the catalytic material is deposited on the anchor layer and comprises a refractory metal oxide support on which one or more catalytic metal components are dispersed.

7. (currently amended) The catalyst member of claim ‡36 comprising a substrate selected from the group consisting of metal substrates and ceramic substrates.

8. (currently amended) An exhaust treatment apparatus comprising the catalyst member of claim 136, claim 3 or claim 4 connected in the exhaust flow path of an internal combustion engine.

9. (original) The apparatus of claim 8 wherein the metal substrate comprises the interior surface of a conduit through which the exhaust of an internal combustion engine is flowed prior to discharge of the exhaust.

10. (original) The apparatus of claim 8 wherein the carrier substrate comprises a metal substrate.

11. (original) The apparatus of claim 8 wherein the carrier substrate comprises a ceramic substrate.

12 - 19. (canceled)

20. (currently amended) The catalyst member of claim 1946 wherein the at least two substrate regions of different substrate densities have thereon different effective loadings of the catalytic material.

21. (currently amended) The catalyst member of claim 36, 1946 or claim 20 wherein the ~~at least two substrate regions comprise regions of substrates~~ is selected from the group consisting of foamed metal, wire mesh and corrugated foil honeycomb.

22. - 35. (canceled)

36. (currently amended) A method for treating the exhaust stream from an engine, comprising flowing the exhaust stream into contact with a catalyst member comprising:

a carrier substrate having an anchor layer disposed thereon by electric arc spraying; and

catalytic material disposed on the carrier substratethe catalyst member of claim 1 or claim 19.

37. (currently amended) In a motorcycle comprising an engine and an exhaust treatment apparatus, the improvement comprising that the exhaust treatment apparatus comprises a catalyst member according to any one of claims 36-6, 1946 or 20.

38. (currently amended) A utility engine comprising an exhaust apparatus comprising a catalyst member according to any one of claims 36-6, 18 or 1946.

39. (original) In a lawn mower comprising an engine and an exhaust treatment apparatus, the improvement comprising that the engine comprises the utility engine of claim 38.

40. - 45 (canceled)

46. (new) A method for treating the exhaust stream from an engine, comprising flowing the exhaust stream into contact with a catalyst member comprising:

a carrier substrate comprising at least two regions of different substrate densities disposed for fluid flow from one region to the other; and

a catalytic material deposited on the at least two substrate regions of different surface area densities.